CCA GCA ACC AAT GAT GCC CGT T-TAMRA-3' CA GCA ACC AAT GAT GCC CGT T-TAMRA-3'

CCA GCA AGC ACT GAT GCC TGT T-TAMRA-3' CA GCA AGC ACT GAT GCC TGT T-TAMRA-3'

Fig. 1A

Fluorescent Dyes

	Absorbance Maxima	Emission Maxima
Fluorescein	494nm	525nm
Tetrachloro fluorescein	521nm	536nm
TAMRA	565nm	580nm

Fig. 1B

Cleaved Fragments:

Fig. 1C

C00H H000. NO_2 181 226 H000 0: H000 NO₂ 309 H000 176 .CF₃ HO 214 COOH F H000 258 151 YCOOH H000 YC00H 198 138 249 соон о̀ 오 H000 오 ರ 122 191 ರ

Fig.

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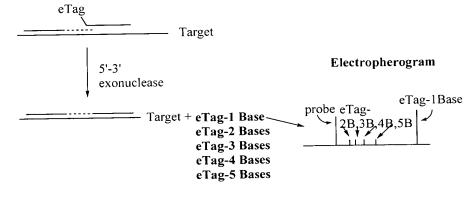


Fig. 3A

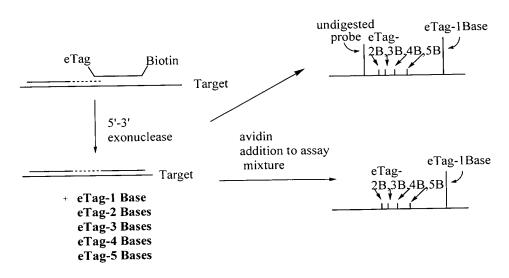


Fig. 3B

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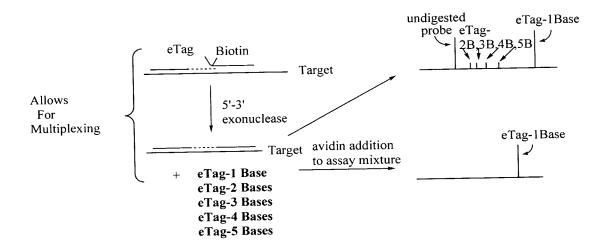


Fig. 3C

Fig. 3D

APPRotein		FIG.
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Fig. 4

e-tag Reporter	Elution Time on CE, min	<u>Mass</u>
HO O O O	6.4	778
CI COOH OH OH OH OH OH OH OH OH OH	¹ 2 N 7.1	925
CI CI ON NH2 HN O-P-O NO CI CI O-P-O NO HO O O	7.3	901
CI CI COOH NH2 HN CI CI O-P-O ON N HO O O O	7.7	994
CI CI COOH OHO	8.0	985
CI CI COOH NH2 O-P-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O	9.25	961

Fig. 5

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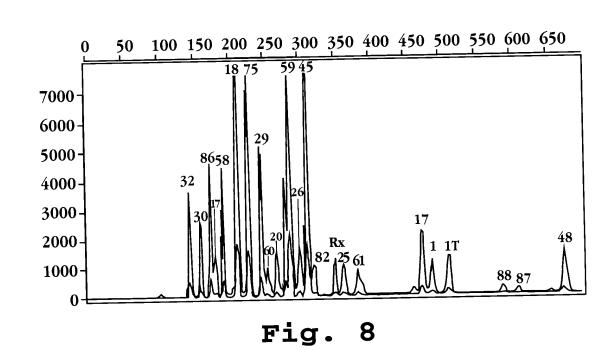
e-tag Reporter	Charge	Elution Time, min
OFluorescein		
O HN ()50-P-C3C3C3C3C3-	- 8	12.1*
OF Fluorescein OF P-O- $C_6C_6C_6C_6C_6$		12.7
OF Fluorescein $O = O + O + O + O + O + O + O + O + O + $		12.8
O _√ Fluorescein		13.1
$\begin{array}{c} O \\ HN \\ O - P - O - C_6 C_6 C_6 C_6 - O \end{array}$ O Fluorescein		1011
$ \begin{array}{c} O \\ HN \\ $	-6 dC	13.0
O Fluorescein O $\stackrel{\bullet}{\text{P-O-C_6C_6C_6}}$	-6 \dC	13.4
O Fluorescein HN () O P O C ₃ C ₃		12.8*
O Fluorescein HN		13.2*
O Fluorescein HN () O P O C ₉ C ₉	-5	14.8
O Fluorescein HN O P-O TTTdC	-6	17.3
O Fluorescein O O O TTdC	-5	17.0
O Fluorescein O HN O P-O-C ₉ 5 O-	-4	15.2*
O Fluorescein O HN () O P-O-TdC	-4	16.5
3 ()-	Fig. 6	

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$$NH_2$$
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Fig. 7

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$$\begin{array}{c} \text{HO} \\ \text{DMTO} \\ \text{OCE} \end{array}$$

Fig. 9

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(9 negative charges per coupling)

Fig. 10

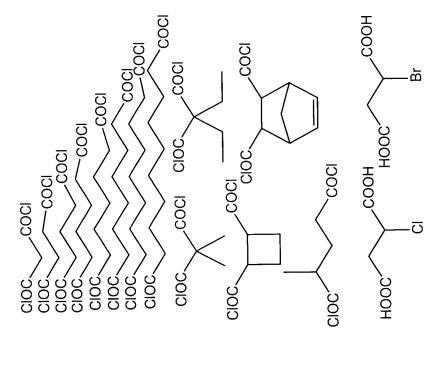
Fig. 11

Fig. 12

the first that the many them make the state of the state

Fig. 13

The state of the s



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HO,HO,

OH, OH

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-CONH₂

OH H₂N

CH, CH, OH H₂N,

 H_2N

SBnOMe

SBn OH H₂N

 H_2N

`S' OH H₂N_\

 H_2N

Fig. 14

Broth wing from the graph

£.:

S(), o R-0 \ 0! COOH 4 NH ON ON O 6 ONH COOH OS OPO NO HN-NH 7 O S PO NO COOH 10 NHO NHO

Fig. 15

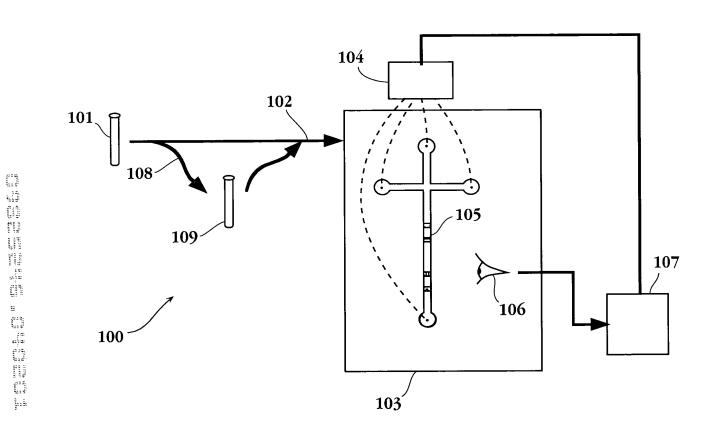


Fig. 16

ACLA002

ACLA003

ACLA004

ACLA005

ACLA006

ACLA007

ACLA008

ACLA009

ACLA010

ACLA011

ACLA012

Fig. 17A

the many given in the first that the state of the state o

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ACLA013 ACLA019 Fluorescein Fluorescein (dT)₂dC ACLA014 ACLA020 Fluorescein Fluorescein dGdC ACLA021 ACLA015 Fluorescein Fluorescein ΗŅ ACLA022 ACLA016 Fluorescein Fluorescein ACLA023 ACLA017 Fluorescein Fluorescein ACLA024 ACLA018 Fluorescein Fluorescein

Fig. 17B

ACLA026

ACLA027

ACLA028

ACLA029

ACLA030

ACLA031

ACLA032

O Fluorescein
$$C_3C_3C_3C_3C_3C_3$$
 C_3

ACLA033

ACLA034

ACLA035

ACLA036

Fig. 17C

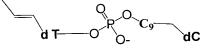
O Fluorescein HN O C C C

ACLA038

ACLA039

ACLA040

Fluorescein



ACLA041

Fluorescein

ACLA042

Fluorescein

ACLA043

Fluorescein

ACLA044

Fluorescein

ACLA045

Fluorescein

ACLA046

Fluorescein

ACLA047

Fluorescein

Fig. 17D

ACLA049

Fluorescein

ACLA050

ACLA051

ACLA052

ACLA053

ACLA054

ACLA055

ACLA056

ACLA057

ACLA058

ACLA059

Fig. 17E

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ACLA061

ACLA062

ACLA063

ACLA064

ACLA065

ACLA066

ACLA067

ACLA068

ACLA069

Fig. 17F

And the state of t

Fig. 17G

ACLA080

ACLA081

OFluorescein

ACLA082

OFluorescein

ACLA083

ACLA084

ACLA085

ACLA086

ACLA087

ACLA088

Fluorescein C_3T C_3 C_3 C_9 C_9 C_9

Fig. 17H

gering gering gering security gering security at 10 certains and of the highest period of the certain gering gering of the certain gering of the certain gering ger

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ACLA089

Fluorescein

$$C_3C_3TC_3$$
 d T C_9 dC

ACLA090

Fluorescein

$$C_3C_3C_3TC_3$$
 d T C_9 d C_9

ACLA091

Fluorescein

ACLA092

Fluorescein

ACLA093

Fluorescein

ACLA094

Fluorescein

ACLA095

ACLA096

Fluorescein

ACLA097

Fig. 17I

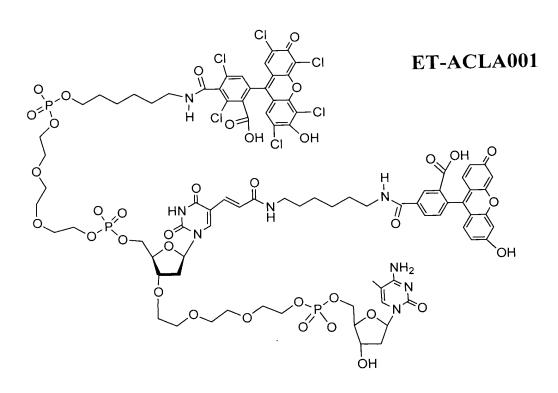
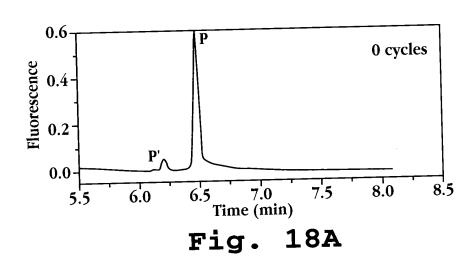
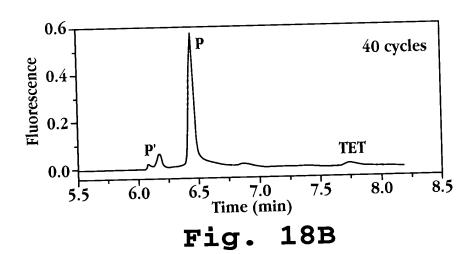
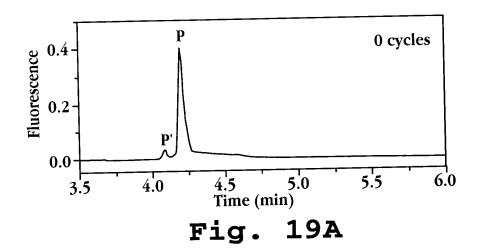


Fig. 17J







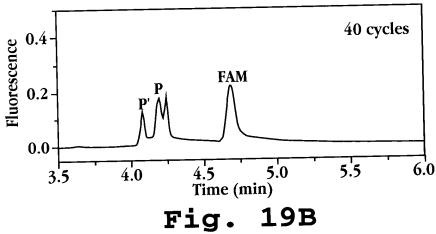
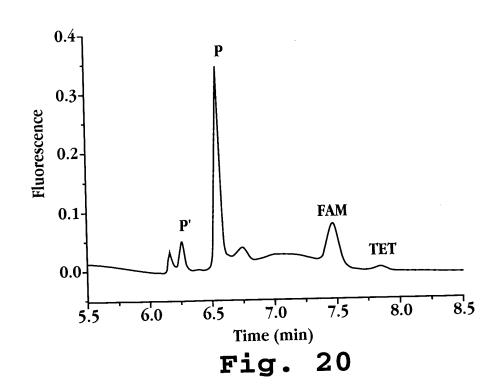
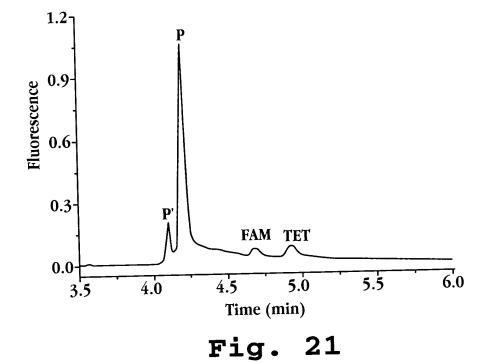


Fig.





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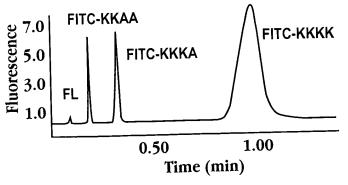


Fig. 22

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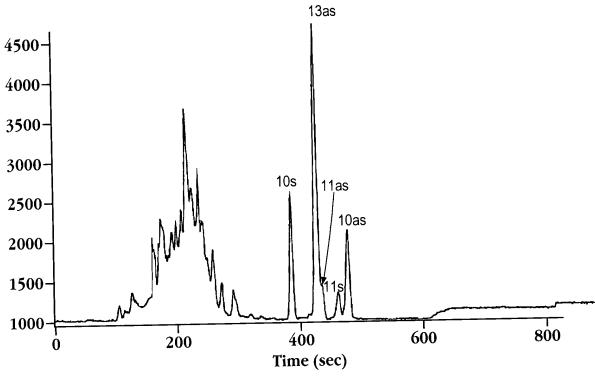


Fig. 23A

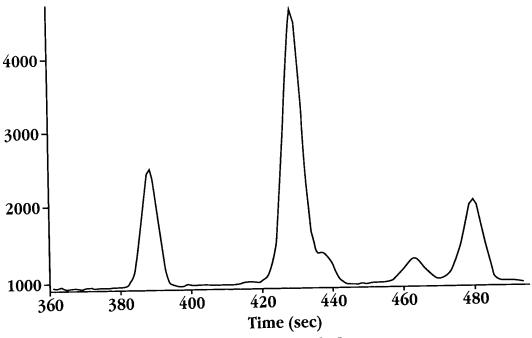


Fig. 23B

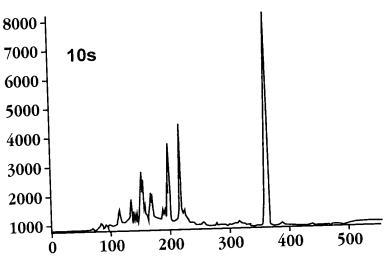


Fig. 23C

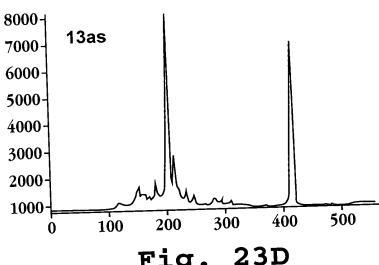
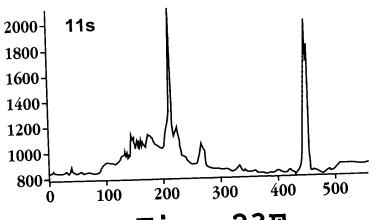


Fig. 23D



23E Fig.

The grant plant the control of the c

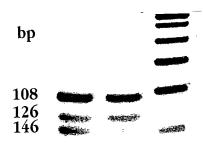


Fig. 23F

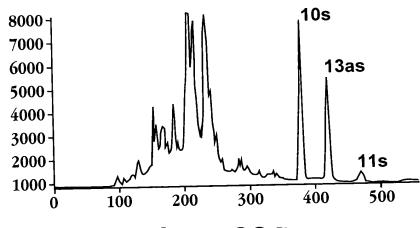


Fig. 23G

Hall hand the reach the control of the first that the first tends of t

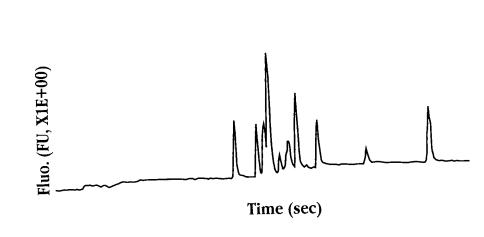


Fig. 24

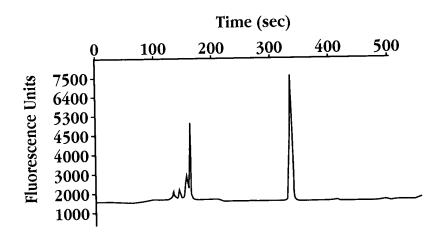


Fig. 25A

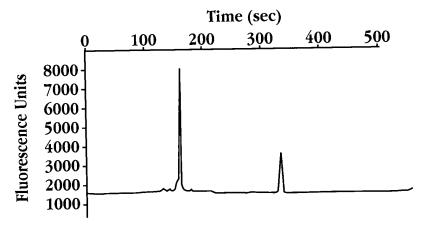
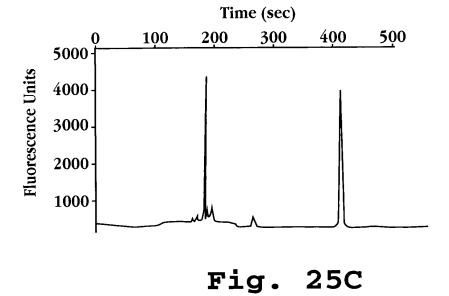


Fig. 25B

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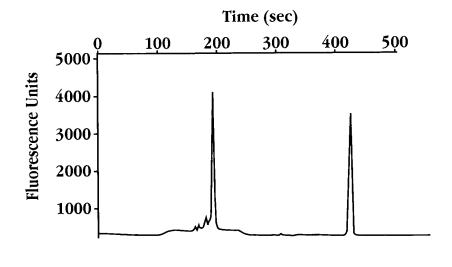


Fig. 25D

thing it would give with their the time of the time of

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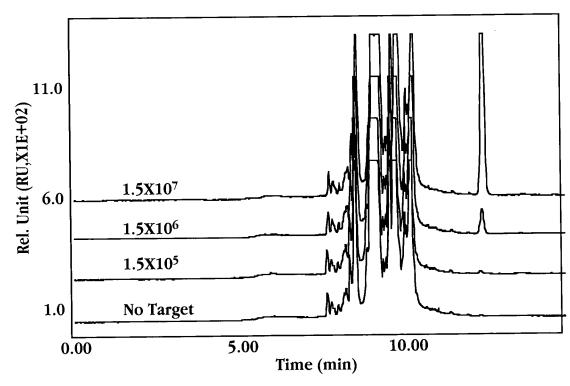
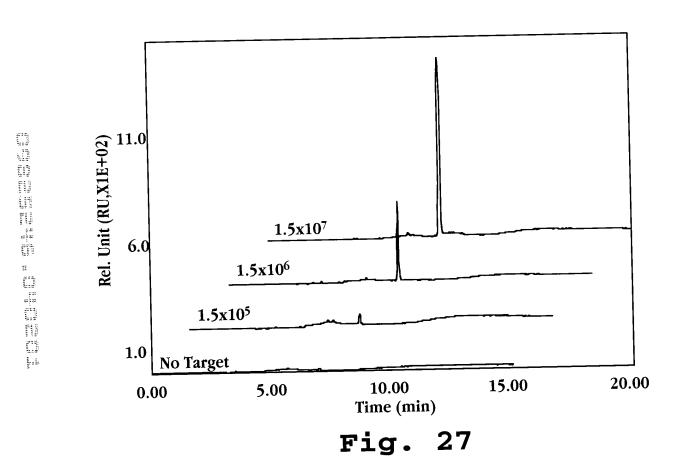


Fig. 26

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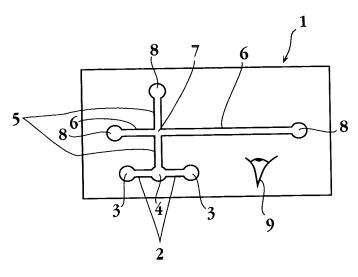


Fig. 28A

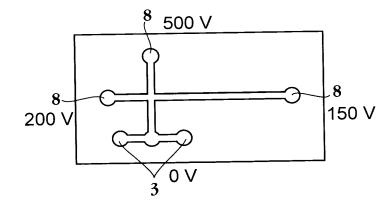


Fig. 28B

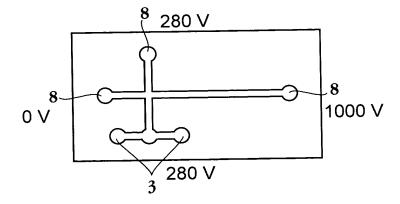


Fig. 28C

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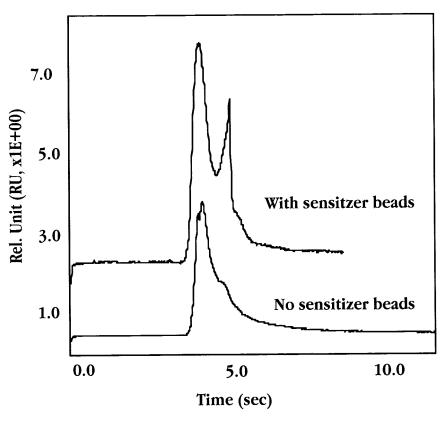
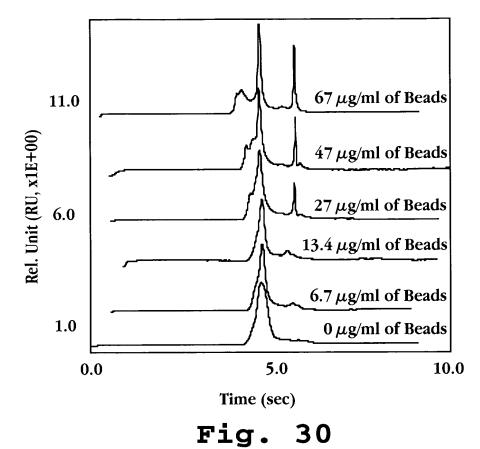


Fig. 29



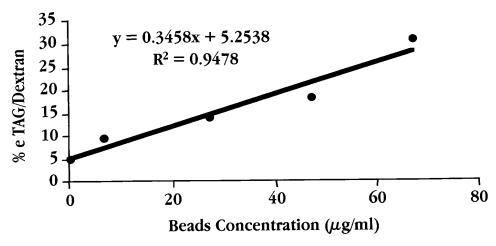


Fig. 31

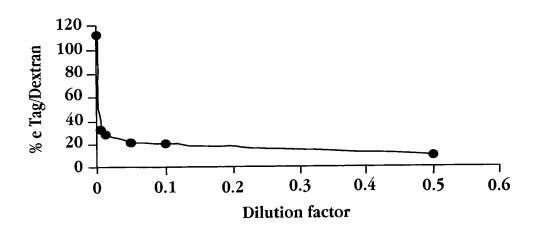
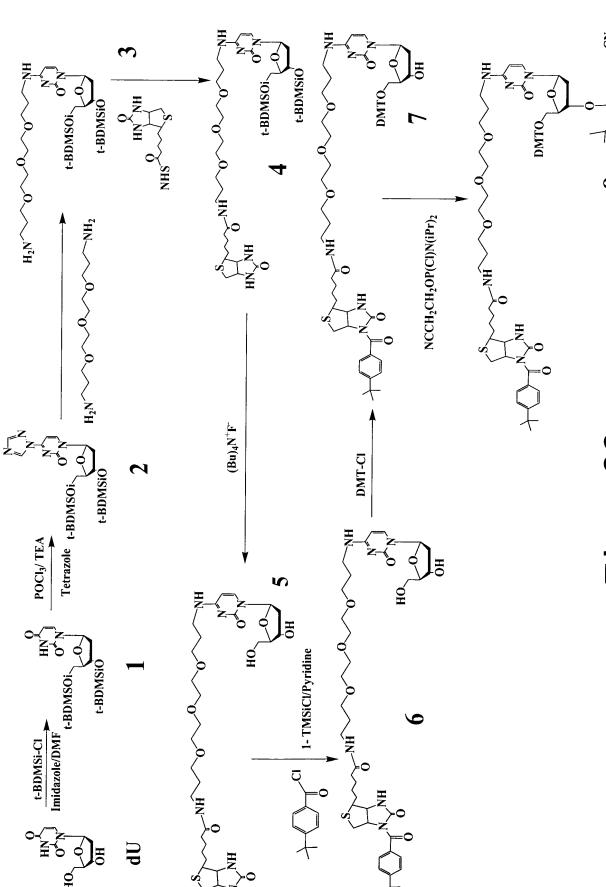


Fig. 32





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	2-(Bu)4NF N N DMTO OH OH
NHBz H ₂ N \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NCCH ₂ CH ₂ OP(CI)N(iPr) ₂
1. Br ₂ /NaOAc Buffer/ pH5 2. TMS-CV BzCl 3- DMT-CV pyridine DMTO OH	NCCI O O NCCI
NH2 1. Br ₂ /NaO. N 2. TMS-CV N 3- DMT-Cl. dRb	HN NH O H

Fig. 34